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VOCAL QUALITY AFTER A PERFORMANCE IN ACTORS COMPARED TO DANCERS

Background

- Due to high professional and vocal demands actors constitute a risk group to develop voice problems. While performing, they possibly overload their vocal mechanism. Nevertheless actors show poor vocal hygiene.
- The impact of a performance is a rarely investigated subject. However, a lot of discussion is reported in the few existing studies that examined differences in objective and subjective vocal quality after performing.

Research Questions

- Does the objective and subjective vocal quality differ between professional actors, non-professional actors and professional dancers before a theatre performance?
- Is there an impact on the objective and subjective vocal quality after one theatre performance?

Methods



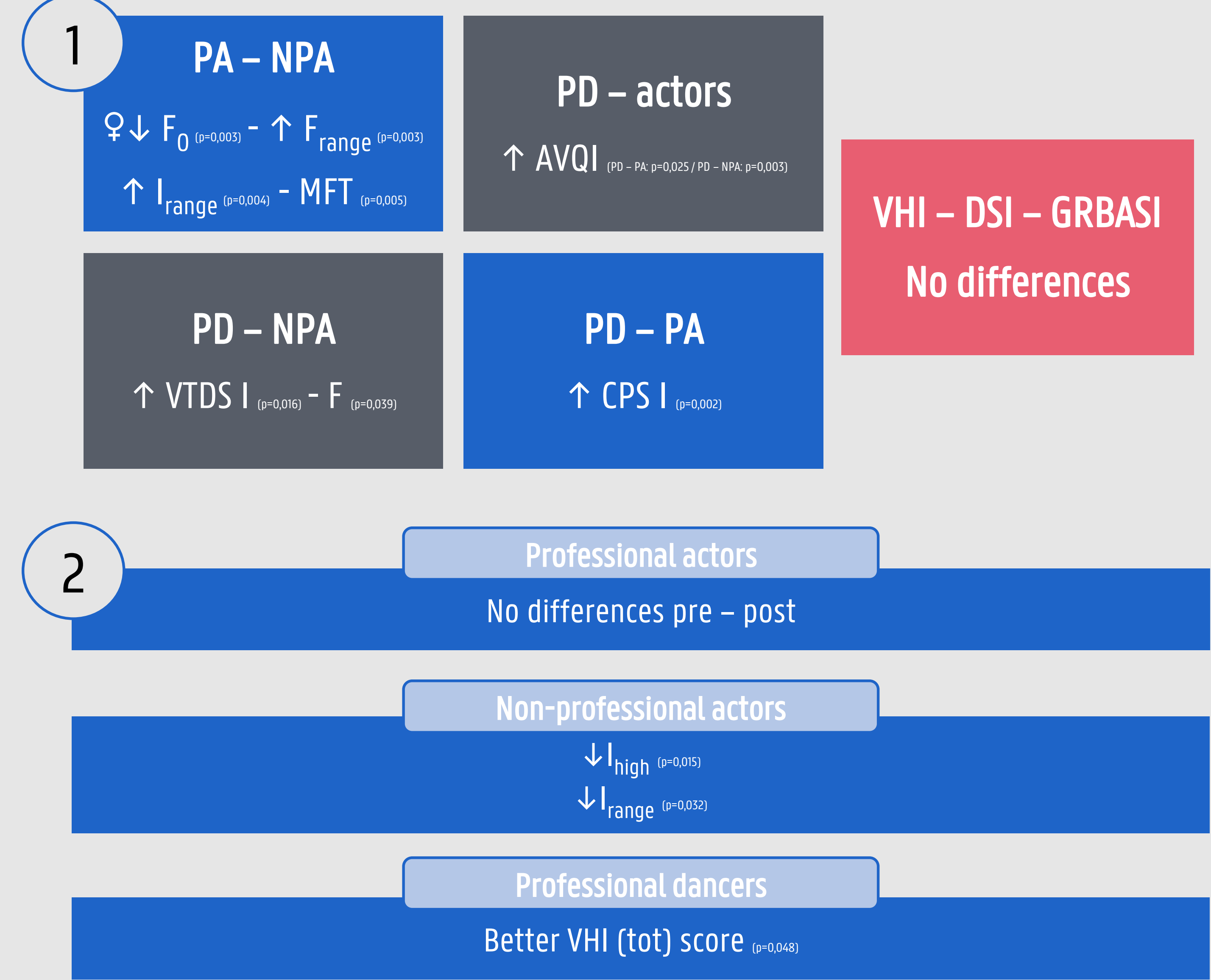
Participants (n = 62)	Professional actors (PA)	Non-professional actors (NPA)	Professional dancers (PD)
n (♀, ♂)	27 (13, 14)	19 (12, 7)	16 (12, 4)
Mean age (years)	35.81 (21 - 48)	21.63 (18 – 29)	25.82 (16 – 42)
Duration of the performance (min.)	87	101	52

Objective measurements	Subjective measurements
Aerodynamic measurements: MPT (s)	Auditory-perceptual evaluation: GRBASI scale
Acoustic analysis [a:]: F ₀	Self-evaluation questionnaires:
	- Patient history
	- Voice Handicap Index (VHI)
	- Vocal Tract Discomfort Scale (VTDS)
	- Corporal Pain Scale (CPS)
Vocal range: I _{low} – I _{high} , F _{low} – F _{high}	
Dysphonia Severity Index (DSI)	Statistical analyses: SPSS 24.0, α = 0.05, Linear mixed models for comparison between groups before the performance and comparison within groups before – after the performance
Acoustic Voice Quality Index (AVQI)	

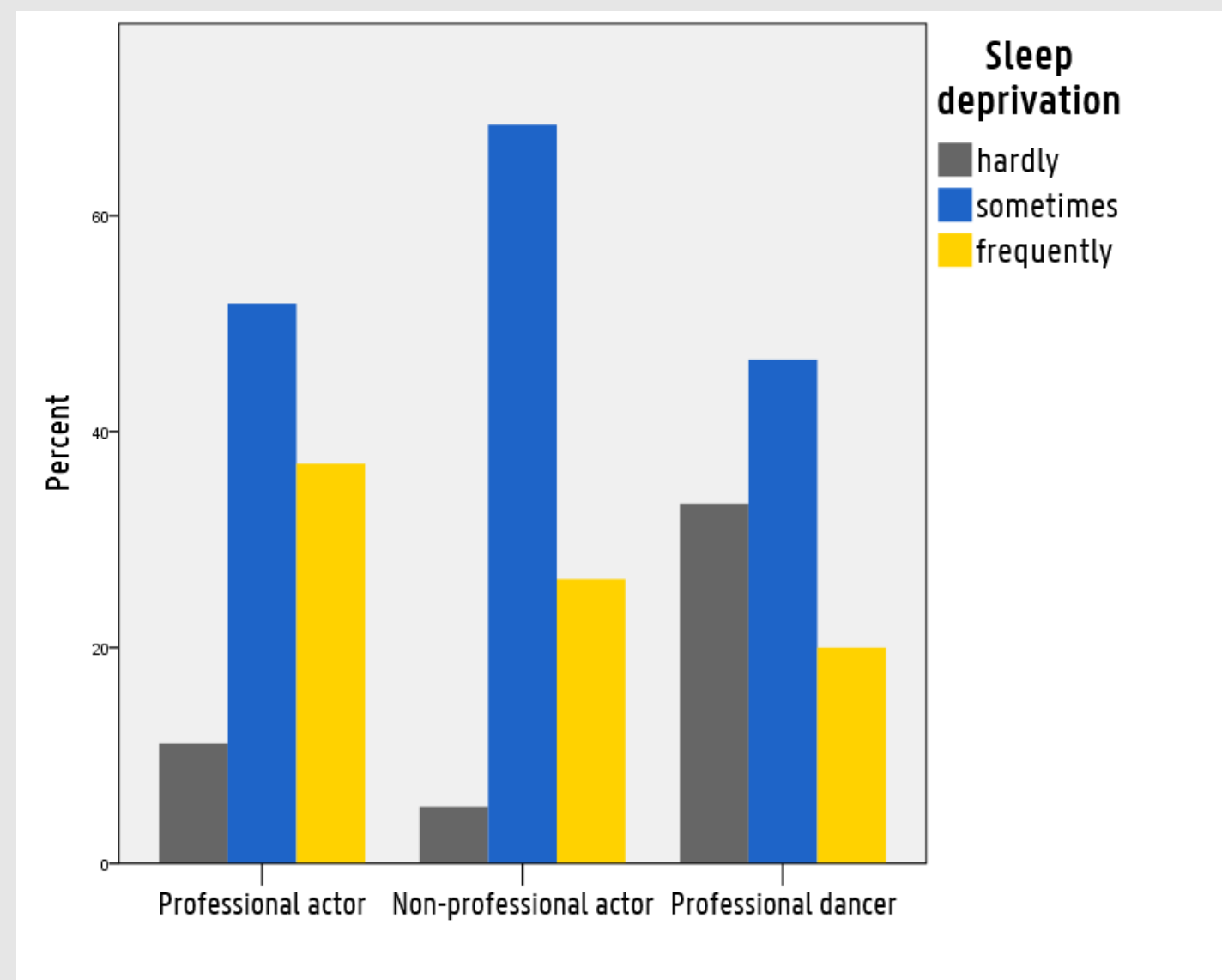
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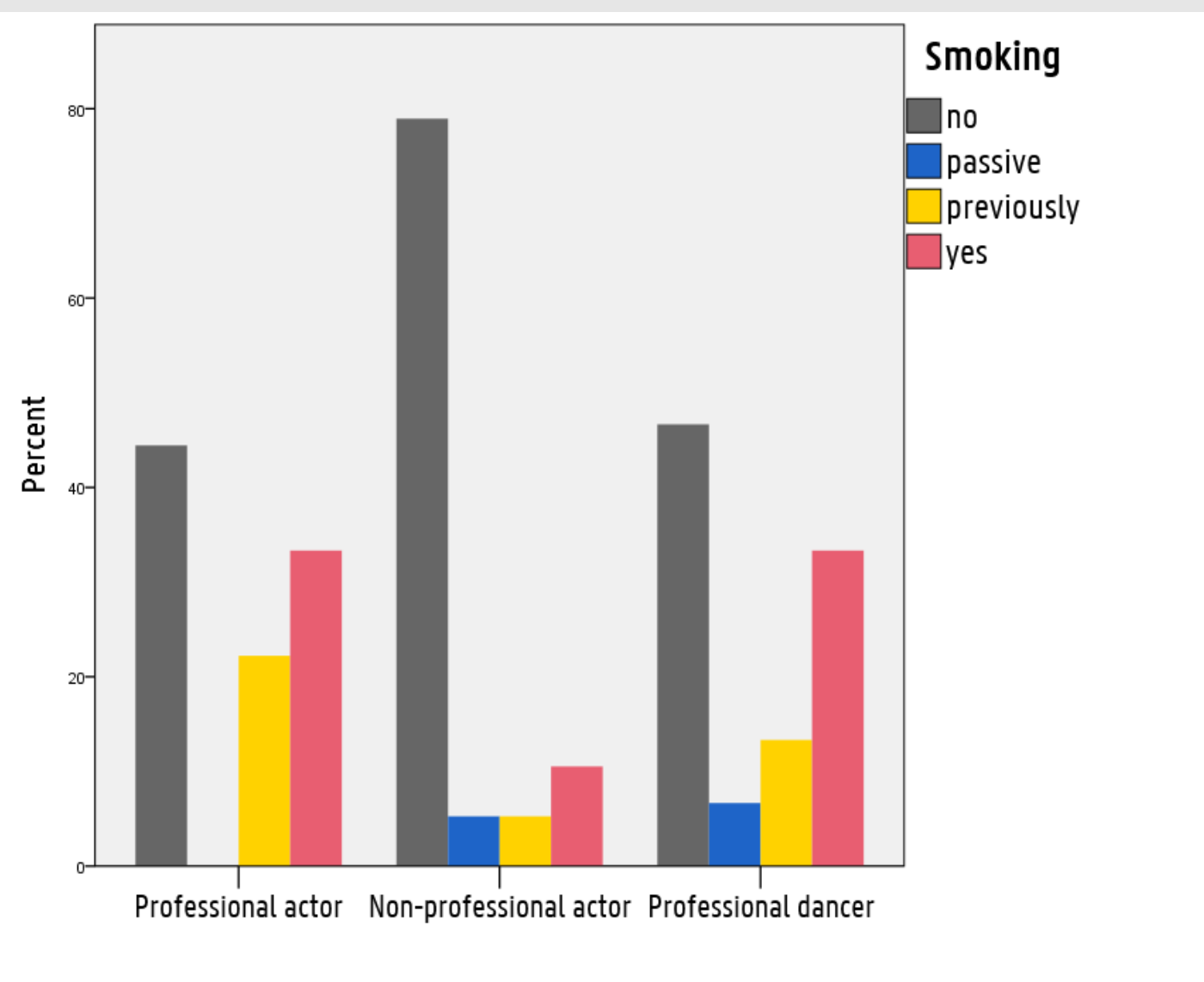
Results



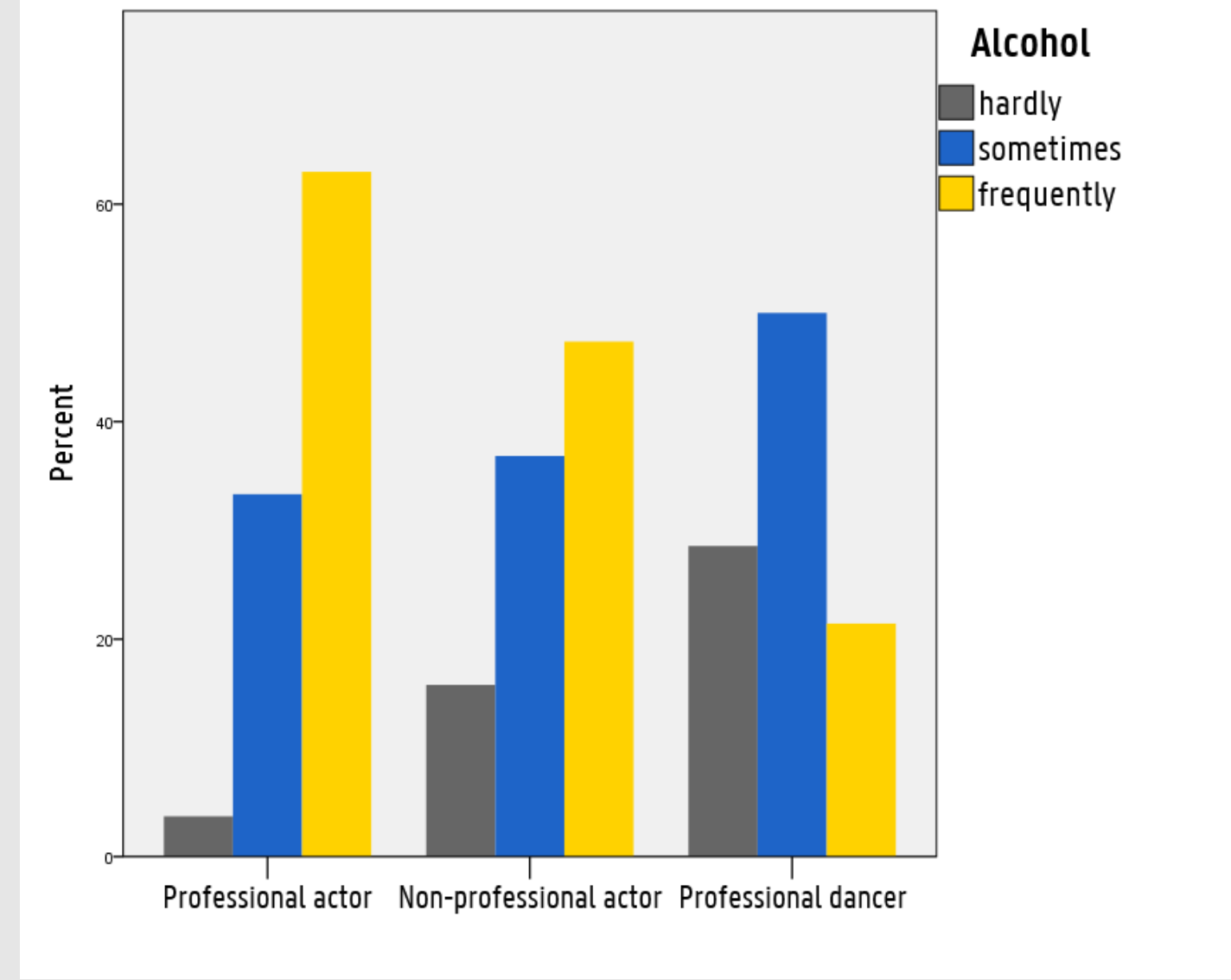
Sleep deprivation



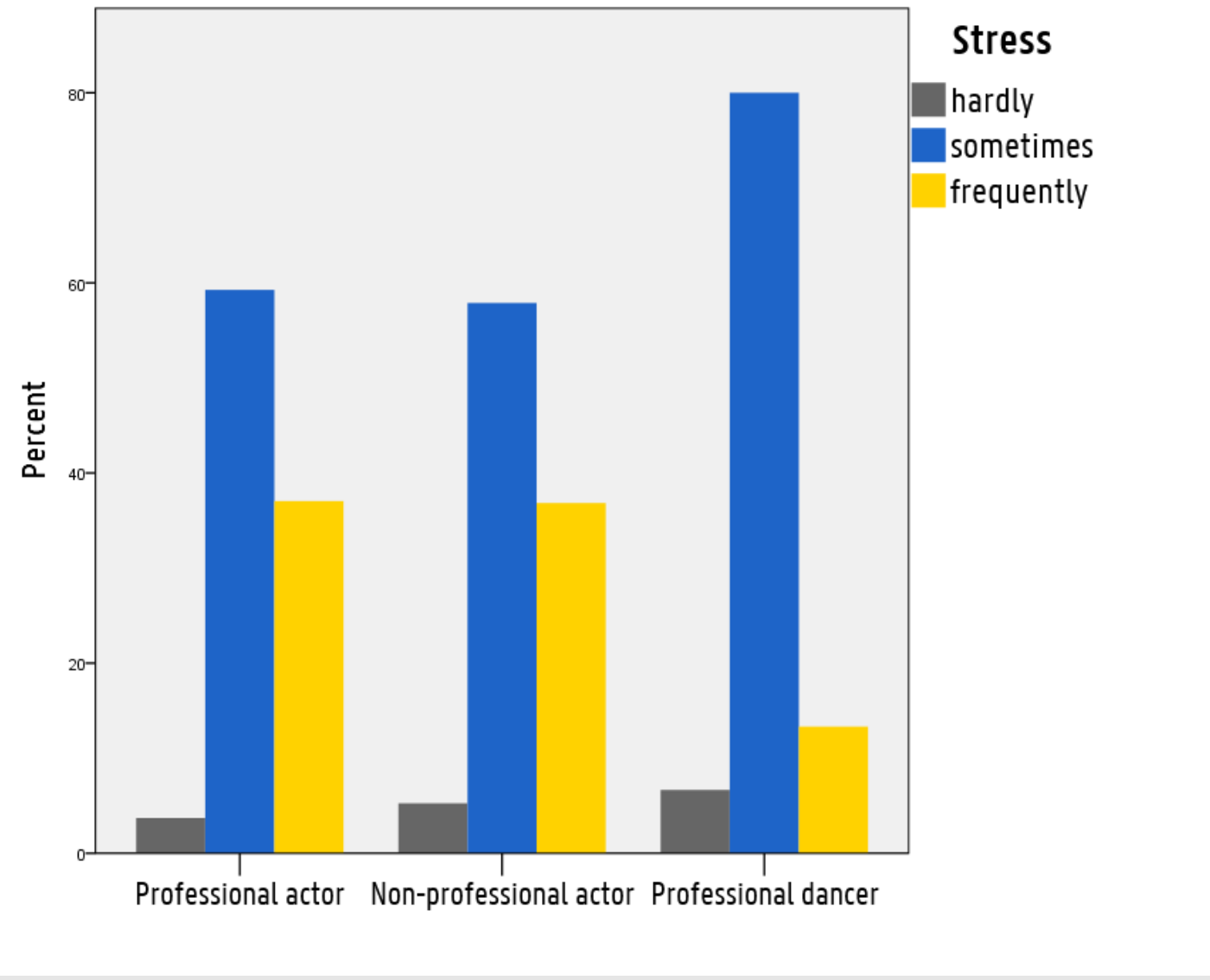
Smoking



Alcohol



Stress



Conclusion

- Vocal range and aerodynamic measurements show a wider range of vocal capacities in professional actors, compared to non-professional actors.
- The AVQI results demonstrated that the dancers' vocal quality is worse than the actors'.
- The questionnaires reveal poor vocal habits, such as drinking, smoking, deprivation of sleep and stress in professional actors.
- There is no observed impact on the vocal quality after one performance.